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A femoral prosthesis includes a stem tapered from its proximal end to its distal end, the stem having a substantially oval-shaped cross-section along its length. The stem has a twisted waist portion intermediate its ends whereby the major axes of the cross-section on opposite sides of the waist portion are disposed at an angle of approximately 90° with respect to one another so as to conform with the geometry of an intramedullary canal within which the stem is to be received.